

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D205-594 REV E  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D205-594 REV 4  
REF. TCCA STC: SH03-6  
REF. FAA STC: SR01742NY  
REF. EASA STC: 10016828

## 1.0 APPLICABILITY:

GROSS WEIGHT TOWING KIT D412-594-303 MAY BE INSTALLED IN CONJUNCTION WITH D412-596-203 CROSSTUBES INSTALLED ON 412 AIRCRAFT WITH EXTENDED HEIGHT LANDING GEAR. THIS IS TO ALLOW GROUND HANDLING AT GROSS WEIGHT IN ACCORDANCE WITH BELL SERVICE INSTRUCTION BHT-412-SI-58. IT IS ALSO ACCEPTABLE TO INSTALL THIS KIT ON 204/205/210/212/214/UH-1 AIRCRAFT EQUIPPED WITH DART EXTENDED HEIGHT LANDING GEAR IN ORDER TO PRESERVE THE LIFE OF THE AFT CROSSTUBES. THIS KIT CONTAINS ENOUGH PARTS TO INSTALL D5143-1 LUGS ON BOTH SKIDTUBES.

## 2.0 PARTS LIST:

QTY -303	PART	DESCRIPTION
X	D412-594-303	GROSS WEIGHT TOWING KIT
2	D5143-1	LUG
2	AN5-46A	BOLT
2	AN5-50A	BOLT
8	NAS1149D0563J	WASHER (AN960JD516)
4	MS21042L5	NUT




## 3.0 WEIGHT AND BALANCE:

INSTALLATION	WEIGHT	LONGITUDINAL	
		ARM	MOMENT
D412-594-303	3.2 lbs	163.0 in	521.6 in-lb
	1.46 kg	4.14 m	6.0 m kg

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

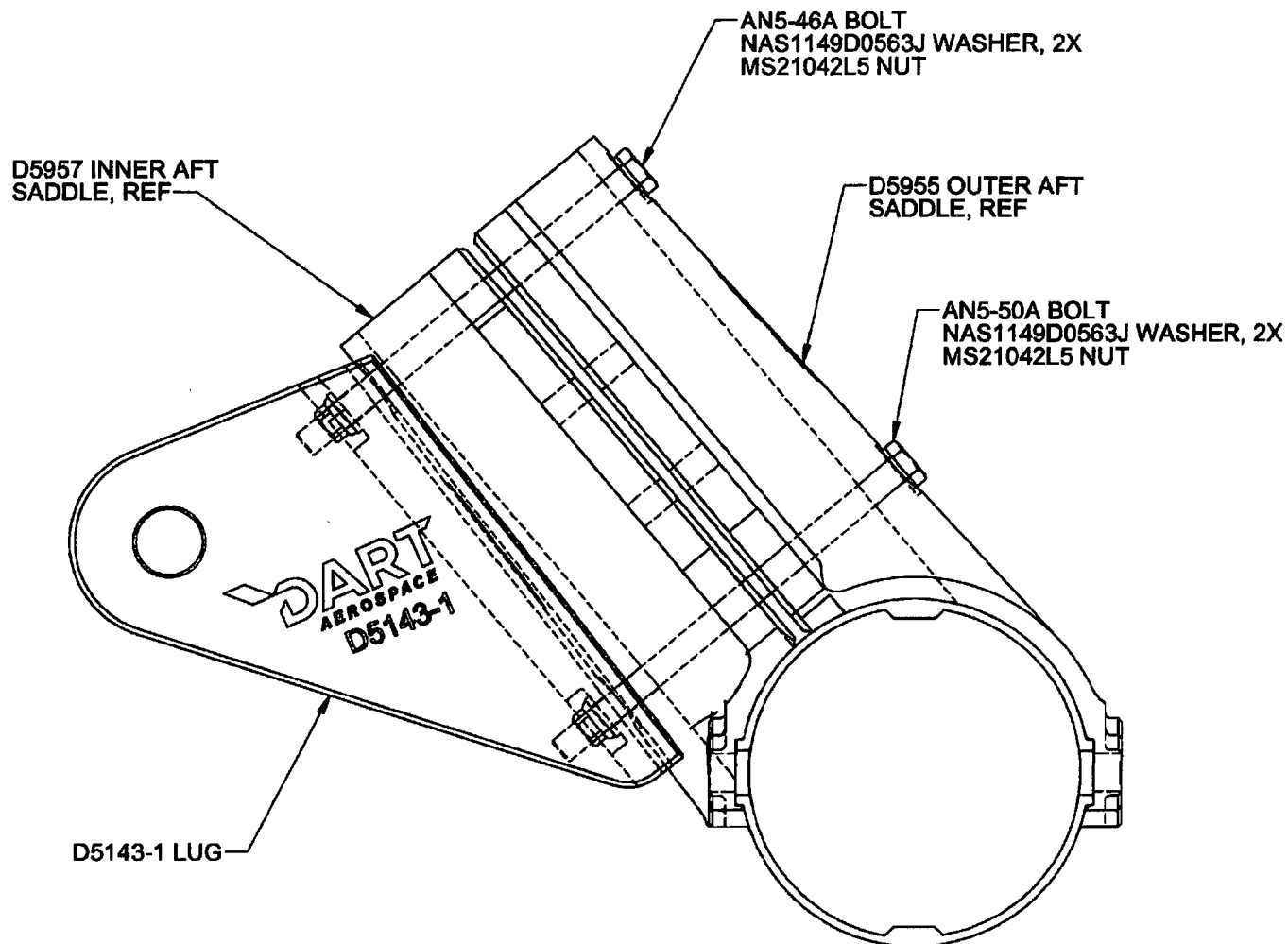
APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 14.09.04  
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A	NEW ISSUE	DB	14.09.04
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	DB		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9705	SHEET 1 OF 2
APPROVED		TITLE	412 GROSS WEIGHT TOWING KIT
DE APPR.		SCALE	NTS
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#### 4.0 INSTALLATION:

- 4.1 REMOVE AN5-43A BOLTS (2), AN5-45A BOLTS (2), NAS1149D0563J WASHERS (8) AND MS21042L5 NUTS (4) FROM THE AFT SADDLES. DISCARD THE FASTENERS.
- 4.2 INSTALL D5143-1 LUGS USING AN5-46A/50A BOLTS, NAS1149D0563J WASHERS AND MS21042L5 NUTS AS SHOWN IN FIGURE 1.
- 4.3 TORQUE BOLTS TO 60-85 IN-LBS (6.8-9.6 NM).
- 4.4 IT IS ACCEPTABLE TO REPLACE THE AN5-46A/50A BOLTS WITH LONGER OR SHORTER AN5 BOLTS AS REQUIRED AND/OR TO INSTALL EXTRA NAS1149D0563J WASHERS UNDER NUT TO ENSURE 1.5 TO 4 THREADS IN SAFETY.



**FIGURE 1: D412-594-303 GROSS WEIGHT TOWING KIT INSTALLATION**  
(TYPICAL AFT SADDLE)

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APPROVED		TITLE	412 GROSS WEIGHT TOWING KIT
DE APPR.			SCALE NTS
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